

¹ USACE requires submission of as-built drawings annually with each report; Ohio EPA requires submission first year, only.

² Recommended by CEC; not specified in permits or plan.

³ CEC recommends that survival be monitored on trees and shrubs, only, since herbaceous plant survival is difficult to track.

⁴ Includes pH, specific conductivity, ammonia, nitrate, nitrite, total organic carbon, sulfate, total iron, total manganese, heavy metals, turbidity, total suspended solids, and biochemical oxygen demand.

Given the required and recommended months for specific parameters, the mitigation areas will be monitored twice per year – in May and late August. Although not specified in the permits or plan, CEC recommends performing plant community and vegetation monitoring during the late August event when the plant community is fully developed. CEC recommends monitoring survival of planted trees and shrubs during May, so that the woody plants are not obscured by herbaceous vegetation. Finally, soil monitoring is recommended for May, when soil moisture conditions and water table levels can be evaluated concurrently with soils.

2.3.2 Reporting

The permits specify that annual monitoring reports of the stream and wetland mitigation areas are to be submitted to the USACE and Ohio EPA by December 31st of each year during the five-year monitoring period. The reports must include the as-built drawings, results of the stream (QHEI) and wetland (vegetation, hydrology, soils, and water chemistry) monitoring, photographs, field data forms and laboratory reports. The monitoring reports should also identify problems encountered and a written plan to correct any deficiencies. In addition to the monitoring reports, the Ohio permits require an on-site mitigation meeting with the Ohio EPA on the third year following completion of the wetland mitigation construction.